Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-12-19-98** **Date: 29-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-19-98 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	26/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.54	100.48	1.116	4481	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.47	100.52	1.122	4473	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.51	1.118	4478	81.5	18.2	16.9	21.2

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

N.D AE(Civil)

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	140.18 X 150.51 X 150.38	21098	8.312	362.9	17.2	17.4
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.46 X 150.56 X 150.35	22653	8.331	398.7	17.6	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.44 X 150.52 X 150.37	22644	8.345	391.7	17.3	

Note:
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Quality Manager

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Page 1/1
****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 03/12/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-18

Sample ID No : 2018-12-19-98 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.57 X 150.54 X 150.33	22667	8.312	539.5	23.8	23.7
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.56 X 150.51 X 150.46	22661	8.331	532.5	23.5	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.55 X 150.44 X 150.36	22649	8.345	536.8	23.7	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 09/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-2018

Sample ID No : 2018-12-19-98 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/11/2018	09/11/2018	150.46 X 150.51 X 150.45	22646	8.312	285.3	12.6	12.6
2	PCC	M15	02/11/2018	09/11/2018	150.53 X 150.48 X 150.38	22652	8.331	280.9	12.4	
3	PCC	M15	02/11/2018	09/11/2018	150.35 X 150.54 X 150.46	22634	8.345	289.7	12.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-19-98** **Date: 30/11/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Sample ID No	:	2018-12-19-98 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/11/2018	30/11/2018	150.55 X 150.54 X 150.38	22664	8.312	396.6	17.5	17.3
2	PCC	M15	02/11/2018	30/11/2018	150.54 X 150.55 X 150.42	22664	8.331	389.8	17.2	
3	PCC	M15	02/11/2018	30/11/2018	150.55 X 150.44 X 150.36	22649	8.345	391.8	17.3	

Note:
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Quality Manager

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Asst Exe Engr
AE(Asst)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 09/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-2018

Sample ID No : 2018-12-19-98 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/11/2018	09/11/2018	150.44 X 150.54 X 150.45	22647	8.312	278.6	12.3	12.5
2	PCC	M15	02/11/2018	09/11/2018	150.54 X 150.47 X 150.38	22652	8.331	283.1	12.5	
3	PCC	M15	02/11/2018	09/11/2018	150.38 X 150.54 X 150.45	22638	8.345	287.5	12.7	

Note:

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Quality Manager

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AE(Retd)

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Zone, B.B.M.P.
Bangalore

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2018

ID	:	**CP-2018-12-19-98**
stomer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
ddress	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Sample ID No	:	2018-12-19-98 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	02/11/2018	30/11/2018	150.55 X 150.52 X 150.38	22661	8.312	398.8	17.6	17.6
2	PCC	M15	02/11/2018	30/11/2018	150.52 X 150.57 X 150.42	22664	8.331	401.1	17.7	
3	PCC	M15	02/11/2018	30/11/2018	150.56 X 150.46 X 150.33	22653	8.345	396.4	17.5	

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Asstt.Ll.N.D AE(Nor)

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-19-98** **Date: 25-10-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-2018
Sample ID No	:	2018-12-19-98 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-19-98** **Date: 25-10-2018**

Sample ID No : 2018-12-19-98 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

AE(Civil)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-19-98**

Date: 25-10-2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-2018

Sample ID No : 2018-12-19-98 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-10-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-19-98** **Date: 25-10-2018**

Sample ID No : 2018-12-19-98 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-19-98** **Date: 26-10-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-10-2018
Sample ID No	:	2018-12-19-98 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-19-98** **Date: 26-10-2018**

Sample ID No : 2018-12-19-98 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

Note:
The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AE(NR)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-19-98 **Date: 26-10-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-2018
Sample ID No	:	2018-12-19-98 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-10-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Authorized Signatory
Quality Manager

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****End of Report****

Asst.Exe.Engr
Kodigehalli Sub Division
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-19-98** **Date: 21-11-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-2018
Sample ID No	:	2018-12-19-98 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-10-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-19-98** **Date: 26-10-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.
Agency	:	Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/154/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-2018
Sample ID No	:	2018-12-19-98 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-10-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	656	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Assistant Executive Engineer, Kodigehalli Sub Div., Yelahanka Zone, B.B.M.P.

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.48 X 150.52 X 150.43	22650	8.312	391.8	17.3	17.3
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.52 X 150.48 X 150.35	22650	8.331	394.1	17.4	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.38 X 150.51 X 150.45	22634	8.345	389.3	17.2	

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 03/12/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 150.48 X 140.41	22653	8.312	530.1	23.4	
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.56 X 150.48 X 150.39	22656	8.331	532.4	23.5	23.5
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.39 X 150.56 X 150.38	22643	8.345	536.6	23.7	

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Quality Manager

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Page 1/1
****End of Report****

Assistant Executive Engineer, Kodigehalli Sub Division, Malahanka Zone, BBMP, Bangalore.

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.48 X 150.56 X 15.48	22656	8.312	398.8	17.6	17.5
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.44 X 150.51 X 150.42	22643	8.331	396.2	17.5	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.38 X 150.58 X 150.37	22644	8.345	391.7	17.3	

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Quality Manager

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AE(Civil)

Assistant Executive Engineer
Yelahanka Zone, B.B.M.P.
Bangalore.

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 03/12/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.52 X 150.44 X 150.35	22644	8.312	538.9	23.8	23.6
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 150.48 X 150.39	22653	8.331	530.1	23.4	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.50 X 150.46 X 130.37	22644	8.345	536.7	23.7	

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Authorized Signatory
Quality Manager

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Assistant Executive Engineer, Kodigehalli Sub Division, Bangalore Zone

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.43 X 150.46 X 150.48	22634	8.312	400.6	17.7	17.7
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.52 X 150.58 X 150.37	22665	8.331	398.9	17.6	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.42 X 150.56 X 150.33	22647	8.345	403.1	17.8	

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Quality Manager

AE(Tech)

****End of Report****

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-19-98** **Date: 03/12/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements To Drains of Cross Road of Hoodi Muneshwara Layout in Ward No 07,Bytarayanapura.

Agency : Sri.A. Hemadri Reddy, No:07, Hebbal Kempapura, 4th Cross Road , Gopalappa Layout, Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/154/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-2018

Sample ID No : 2018-12-19-98 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.58 X 150.38 X 150.47	22644	8.312	538.9	23.8	23.8
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.52 X 150.39 X 150.48	22637	8.331	541.0	23.9	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 150.33 X 150.42	22631	8.345	536.3	23.7	

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